



September 29, 2005

Utah Coal Program
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, Utah 84114-5801

Inc. Mining
C/015/0009

Subject: **Amendment to Update Trail Mountain Mine Permit to Remove Private and Confidential Information, PacifiCorp, Trail Mountain Mine, C/015/009, Task ID #2236, Emery County, Utah**

PacifiCorp, by and through its wholly-owned subsidiary, Energy West Mining Company ("Energy West") as mine operator, hereby submits an amendment to remove private and confidential information from volumes; Volume 1 and Volume 3. Removal of the private and confidential information complies with the Division's request in the letter dated August 15, 2005.

Attached are the required C1 and C2 forms along with seven (7) clean copies of the amended text sections and reference sheets as outlined below:

Volume 1	Chapter 5	Historical and Cultural Resources: Amended text as requested by Division's letter dated August 15, 2005 and added references related to the location of sensitive information/maps.
Volume 3	Plate 5-1 Drawing TMS1395C	Cottonwood Creek Cultural Resource Survey relocated to Private and Confidential Volume: Trail Mountain tab
Appendix Volume	Appendix 5-1 & Figure 5-1	Relocate Cultural and Historical Survey and Figure 5-1 to Private and Confidential Volume: Trail Mountain tab

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Huntington Office:
(435) 687-9821
Fax (435) 687-2695
Purchasing Fax (435) 687-9092

Deer Creek Mine:
(435) 687-2317
Fax (435) 687-2285

DIV. OF OIL, GAS & MINING
Trail Mountain Mine:
(435) 748-2140
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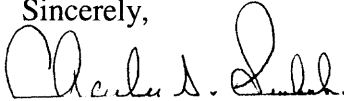
Trail Mountain Mine Private and Confidential Information Amendment

Page Two

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Seven (7) copies of the information listed above are included with this submittal along with the required C1/C2 forms. Please return one (1) stamped copy for incorporation in our permit. If you have any questions or concerns regarding this document, please contact myself at (435) 687-4720 or Dennis Oakley at (435) 687-4825.

Sincerely,



Charles A. Semborski
Manager Geology/Permitting

Enclosure: Chapter 5
Reference Sheets
C1/C2 Forms

Cc: Doug Johnson (EWMC, w/o encl.)
File

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APPLICATION FOR COAL PERMIT PROCESSING

Permit Change ☒ New Permit ☐ Renewal ☐ Exploration ☐ Bond Release ☐ Transfer ☐

Permittee: PacifiCorp

Mine: Trail Mountain Mine

Permit Number: C/015/009

Title: Update Trail Mountain Mine Permit Volume 1 Chapter 5 and Relocation of Private and Confidential Info.

Description, Include reason for application and timing required to implement:

Replace Chapter 5 and Relocate Private and Confidential Information

Instructions: If you answer yes to any of the first eight (gray) questions, this application may require Public Notice publication.

- ☐ Yes ☒ No 1. Change in the size of the Permit Area? Acres: _____ Disturbed Area: _____ ☐ increase ☐ decrease.
- ☐ Yes ☒ No 2. Is the application submitted as a result of a Division Order? DO# _____
- ☐ Yes ☒ No 3. Does the application include operations outside a previously identified Cumulative Hydrologic Impact Area?
- ☐ Yes ☒ No 4. Does the application include operations in hydrologic basins other than as currently approved?
- ☐ Yes ☒ No 5. Does the application result from cancellation, reduction or increase of insurance or reclamation bond?
- ☐ Yes ☒ No 6. Does the application require or include public notice publication?
- ☐ Yes ☒ No 7. Does the application require or include ownership, control, right-of-entry, or compliance information?
- ☐ Yes ☒ No 8. Is proposed activity within 100 feet of a public road or cemetery or 300 feet of an occupied dwelling?
- ☐ Yes ☒ No 9. Is the application submitted as a result of a Violation? NOV # _____
- ☐ Yes ☒ No 10. Is the application submitted as a result of other laws or regulations or policies?
- Explain: _____
- ☐ Yes ☒ No 11. Does the application affect the surface landowner or change the post mining land use?
- ☐ Yes ☒ No 12. Does the application require or include underground design or mine sequence and timing? (Modification of R2P2)
- ☐ Yes ☒ No 13. Does the application require or include collection and reporting of any baseline information?
- ☐ Yes ☒ No 14. Could the application have any effect on wildlife or vegetation outside the current disturbed area?
- ☐ Yes ☒ No 15. Does the application require or include soil removal, storage or placement?
- ☐ Yes ☒ No 16. Does the application require or include vegetation monitoring, removal or revegetation activities?
- ☐ Yes ☒ No 17. Does the application require or include construction, modification, or removal of surface facilities?
- ☐ Yes ☒ No 18. Does the application require or include water monitoring, sediment or drainage control measures?
- ☐ Yes ☒ No 19. Does the application require or include certified designs, maps or calculation?
- ☐ Yes ☒ No 20. Does the application require or include subsidence control or monitoring?
- ☐ Yes ☒ No 21. Have reclamation costs for bonding been provided?
- ☐ Yes ☒ No 22. Does the application involve a perennial stream, a stream buffer zone or discharges to a stream?
- ☐ Yes ☒ No 23. Does the application affect permits issued by other agencies or permits issued to other entities?

Please attach four (4) review copies of the application. If the mine is on or adjacent to Forest Service land please submit five (5) copies, thank you. (These numbers include a copy for the Price Field Office)

I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all respects with the laws of Utah in reference to commitments, undertakings, and obligations, herein.

Charles A. Semborski
Print Name

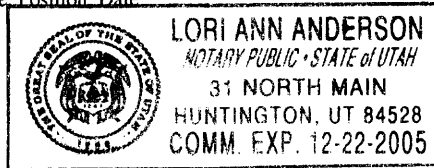
Oliver S. Dahl Geology/Permitting Supervisor 9-29-05
Sign Name Position Date

Subscribed and sworn to before me this 29 day of September, 2005

Lori Ann Anderson
Notary Public

My commission Expires:

Attest: State of Utah 12/22, 2005 } ss:
County of Emery



For Office Use Only:

Assigned Tracking
Number:

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APPLICATION FOR COAL PERMIT PROCESSING

Detailed Schedule Of Changes to the Mining And Reclamation Plan

Permittee: PacifiCorp

Mine: Trail Mountain Mine

Permit Number: C/015/009

Title: Update Volume 1 Chapter 5 and Relocate Private and Confidential Information

Provide a detailed listing of all changes to the Mining and Reclamation Plan, which is required as a result of this proposed permit application. Individually list all maps and drawings that are added, replaced, or removed from the plan. Include changes to the table of contents, section of the plan, or other information as needed to specifically locate, identify and revise the existing Mining and Reclamation Plan. Include page, section and drawing number as part of the description.

DESCRIPTION OF MAP, TEXT, OR MATERIAL TO BE CHANGED

[illegible]

Any other specific or special instruction required for insertion of this proposal into the Mining and Reclamation Plan.

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**Update Volume 1 Chapter 5 & Relocate Private and Confidential Info.,
PacifiCorp, Trail Mountain Mine, C/015/009, Task ID #2236**

**Volume 1: Chapter 5
Replace Text Section**

CHAPTER 5

HISTORICAL AND CULTURAL RESOURCES

TRAIL MOUNTAIN MINE



HISTORICAL AND CULTURAL RESOURCES

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LIST OF PLATES

<u>Plate No.</u>	<u>Description</u>
5-1	Cottonwood Creek Cultural Resource Survey (Refer to Confidential and Private Information Volume: Trail Mountain Mine tab)

APPENDICES

Appendix 5-1	Cultural and Historical Survey Including Figure 5-1 (Refer to Confidential and Private Information Volume: Trail Mountain tab)
Appendix 5-2	Correspondence from the Utah Division of State History

HISTORICAL AND CULTURAL RESOURCES

5.1 Scope

This chapter reviews the existence and potential for historical, archeological, and paleontological resources in the area of Trail Mountain Mine. Also discussed is the potential effect the mining activities will have on the cultural resources.

5.2 Methodology

The cultural evaluations of the existence and potential of historical, archeological, and paleontological resources contains information from a record and archival examination and intensive surveys of the mine plan area and all development zones.

Evaluation of cultural resources for historic and prehistoric sites is done by the use of site quality indicators. Assessment of significance of the sites discovered utilizes the Cultural Resource Rating System (CRRS). CRRS is best explained by quoting the Bureau of Land Management definition sheet:

Cultural Resource Rating System

"The following criteria are established as guidelines. The Bureau recognizes that the assignment of a particular rating is a professional judgement; however, the rationale of these judgements will be explicitly documented as part of the evaluation process.

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Assign an evaluation rating (S1, S2, S3, S4) to each site according to the following guidelines and record on the BLM Form 6400-3:

S1. S1 sites are those sites which are worthy of preservation in situ. In general they are sites in relatively good condition with integrity (both internal and external); and the unique or representative; and/or have associations with important events or personages; and/or have yielded, or have a clear potential for yielding, highly significant scientific or educational information.

S2. S2 sites are those sites which contain important scientific or educational data but yet are not worthy of preservation in situ. They are generally not particularly unique, representative, nor do they have important associations. Many contemporary sites may be S2 sites because, they cannot be clearly and immediately assessed as such, they may become highly significant when evaluated from a future historical perspective.

S3. S3 sites are those sites whose main worth is their potential for contributing data in regard to solving larger problems, such as reconstruction of paleo-environments and human use patterns. These kinds of sites generally show little concentration of artifacts, few features, no important associations, and little or no uniqueness or representativeness.

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S4. S4 sites are those sites which have minimal information retrieval possibilities, or which have no integrity, uniqueness, representativeness, or no important associations.

5.3 Historic Resources

5.3.1 Historical Inventory. No historical resources are known to exist within the mine plan area. A study performed by Archeological Environmental Research Corporation (AERC) in July, 1979 showed no historic sites in the canyon bottom (see Plate 5-1 and Appendices 1 & 2, for a copy of Plate 5-1 and Appendix 1 [including Figure 5-1] refer to PacifiCorp Confidential and Private Information Volume: Trail Mountain tab).

5.3.2 History of Mining. Mining activities existed on or near the site of the Trail Mountain Mine since 1898 (Doelling, 1972). The first large scale operation on the site, the Johnson Mines, opened in 1909. A series of three mines, the Johnson property operated from 1909 through 1948. The amount of coal produced during that period and the extent of the workings is unknown.

In 1946 three additional operations started in Cottonwood Canyon. Two prospects operated for a short time (1946-1952) (Doelling, 1972). Activity at the Trail Mountain Mine started in 1946 and lasted until 1967. The mine was then shut down for 10 years and reopened under the ownership for Mr. John Bell of Orangeville, Utah. Mr. Bell operated the mine until 1979. The Fetterolf Group then operated the mine until 1981, when it was purchased by

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Natomas Trail Mountain Coal Company. The property was subsequently purchased by Diamond Shamrock, later by Arch Minerals Corp., by Beaver Creek Coal Company (1987), and finally by PacifiCorp (1992) who presently operates the mine.

5.3.3 Effects of Mining on Historical Resources. There are no sites listed or eligible for listing in the National Register of Historic Places located within the mine plan area. Therefore, no effect will occur due to the mining.

5.4 Archeological Resources.

5.4.1 Archeological Inventory. Five archeological sites (279E/1 through 279E/5) and four isolated artifacts (279E/x1 through 279E/x4) were identified by AERC in the lower section of Cottonwood Canyon (see Plate 5-1: Refer to PacifiCorp Confidential and Private Information Volume: Trail Mountain tab). Two of the archeological sites, 279E/3 and 279E/5 have important data remains. Some vandalism had occurred at these sites. "The abundance of charcoal and the lack of ceramics, suggests possible datable archaic habitation. Site depths of up to a meter of fill evidently contain important stratigraphic data. Both sites have register potential (CRRS: S-2) because of the scientific information potential". (AERC, 1979.)

Site 279E/2, located north of 279E/4 is something of an enigma. The site consists of a rectangular stone foundation, but the lack of other surface materials, and apparent depth, make it difficult to determine whether the site was historic or an unusual, perhaps an uncompleted prehistoric structure. Because of the stone alignments, and its pinon-juniper- bench

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location, the site is suspected as prehistoric. It was judged not to have National Register potential and rated CRRS: S-4.

The two remaining sites 279E/1 and 2 were both CRRS:S-4 lithic scatters. No diagnostic tools were found upon them or any of the other previously described sites (for a complete discussion related to the cultural resources fo Cottonwood Canyon refer to "A Preliminary Report on the Cultural Resources and Test Excavations in Cottonwood Canyon, Emery County, Utah [UP&L-79-5A, B, C]" , 1979, report prepared for Utah Power & Light Company by Archeological Environmental Research Corporation, Salt Lake City, Utah).

5.4.2 Effects of Mining on Archeological Resources. The Cottonwood Creek area seems to have been the scene of limited but significant prehistoric activities. Two of the isolated artifact locations 279E/X1 and X2 had every appearance of having been sites long since eroded. These isolates compliment the two other lithic scatters and indicate limited hunting activities along the drainage. The depth of charcoal in the rockshelters indicate that their prehistoric occupation could involve a considerable chronological period.

In the area the artifacts were located, little impacts from the mining activities will occur. The sites located near the roadside will be and have been subject to vandalism. Future improvements to the road suggested by Emery County and the Forest Service may significantly impact the sites.

If such improvements occur then an intensive study will need to be undertaken to determine mitigation procedures. At the present time no significant impacts are expected.

5.5 Paleontological Resources

5.5.1 Paleontologic Inventory. Fossils are found on the mine plan area in nearly all of the geologic units. With the exception of dinosaur footprints found in the coal seams of the Blackhawk Formation, no significant paleontologic specimens are known to be present (US Forest Service, 1978).

5.5.2 Effects of Mining on Paleontologic Resources. No significant effects to the paleontologic resources are expected by the mining activities. The occurrence of dinosaur footprints in the coal seams is not a unique occurrence.

5.6 Public Parks

5.6.1 Inventory of Public Facilities. No public facilities are located within the permit area. A public road provides access to the site and the upper canyon.

5.6.2 Effect of Mining on Public Facilities. No effect on public facilities is expected from the mining operation. Access on the public road will not be affected.

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5.7 Bibliography

Plateau Mining Company, 1980. Cultural Resources. Report prepared by Archeological -
Environmental Research Corporation for Plateau Mining Company, Wattis, Utah.

US Forest Service, 1978. Environmental Assessment - Trail Mountain Federal Lease U-982996.
Price, Utah.

US Forest Service, 1982. Environmental Assessment - Trail Mountain Coal Company, Tract 2
Coal Lease No. U-49332. Price, Utah.

Utah Power & Light, 1980. Mining and Reclamation Plan, Wilberg Mine-Cottonwood
Modification. Salt Lake City, Utah.

A Preliminary Report on the Cultural Resources and Test Excavations in Cottonwood Canyon,
Emery County, Utah (UP&L-79-5A, B, C)" , 1979, report prepared for Utah Power &
Light Company by Archeological Environmental Research Corporation, Salt Lake City,
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**Update Volume 1 Chapter 5 & Relocate Private and Confidential Info.,
PacifiCorp, Trail Mountain Mine, C/015/009, Task ID #2236**

**Volume 3: Plate 5-1
Relocate to Private and Confidential Volume:
Trail Mountain tab**

**TRAIL MOUNTAIN MINE
C/015/009**

Volume 3

Plate 5-1

**Refer to Private and Confidential Volume:
Trail Mountain tab**

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**Update Volume 1 Chapter 5 & Relocate Private and Confidential Info.,
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Volume 3: Plate 5-1
Relocate to Private and Confidential Volume:
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**TRAIL MOUNTAIN MINE
C/015/009**

Appendix Volume

**Appendix 5-1
(Including Figure 5-1)**

**Refer to Private and Confidential Volume:
Trail Mountain tab**